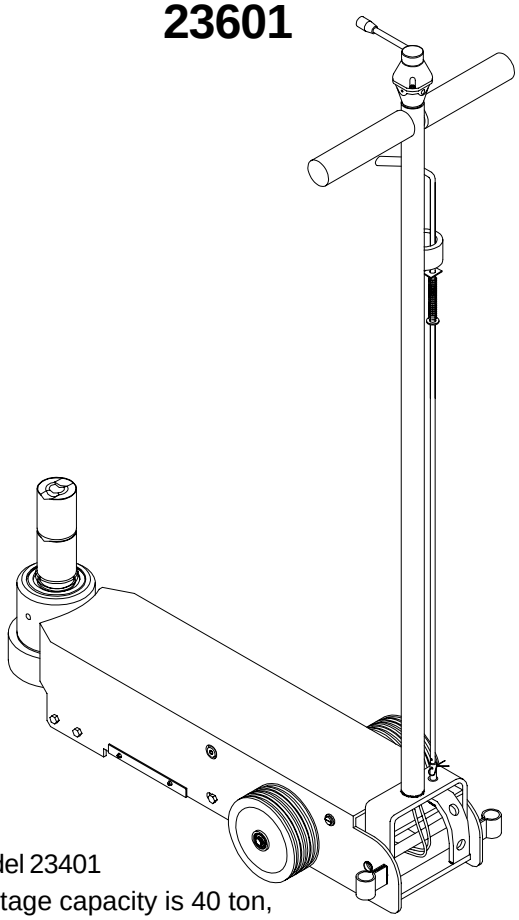
Operating Instructions
& Parts Manual

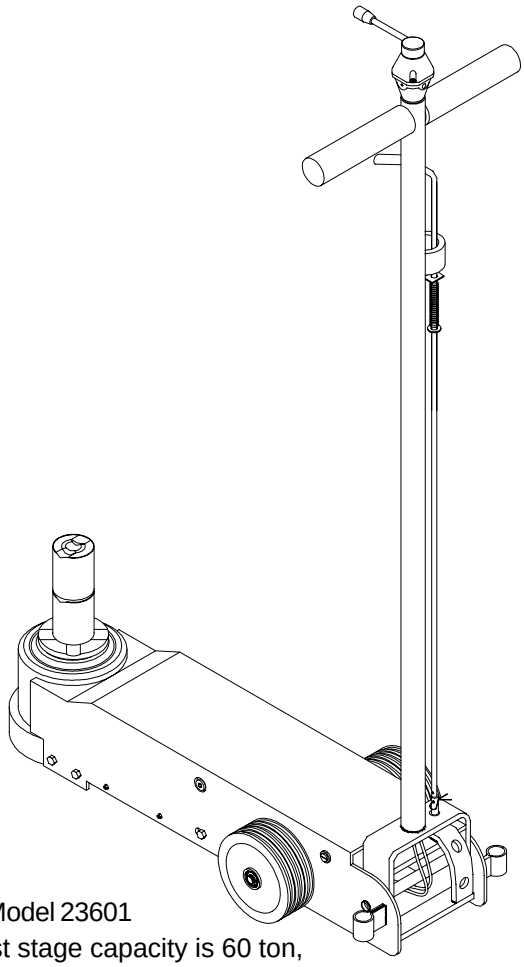
Hydraulic/Air-Actuated Axle Jacks

Model Number
23401
23601



Model 23401
*Ist stage capacity is 40 ton,
2nd stage capacity is 20 ton

Capacity
***20/40 Ton**
****20/40/60 Ton**



Model 23601
**Ist stage capacity is 60 ton,
2nd stage capacity is 40 ton,
3rd stage capacity is 20 ton

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10939 N. Pomona Avenue
Kansas City, MO 64153

OIPM#23401-HYDAJ2
Printed in Taiwan

Save these instructions. For your safety, read, understand, and follow the information provided with and on this jack. The owner and operator of this equipment shall have an understanding of this jack and safe operating procedures before attempting to use. The owner and operator shall be aware that use and repair of this product may require special skills and knowledge. Instructions and safety information shall be conveyed in the operator's native language before use of this jack is authorized. If any doubt exists as to the safe and proper use of this jack, remove from service immediately. **Inspect before each use.** Do not use if broken, bent, cracked or damaged parts are noted. Any jack that appears damaged in any way, or operates abnormally shall be removed from service immediately. If the jack has been or suspected to have been subjected to a shock load (a load dropped suddenly, unexpectedly upon it), immediately discontinue use until jack has been checked by an Omega authorized service center. It is recommended that an annual inspection be done by qualified personnel. Labels and Operator's Manuals are available from manufacturer (see Replacement Parts, pages 6 thru 7).

PRODUCT DESCRIPTION

Omega Hydraulic/Air-Actuated Axle Jacks are designed for **lifting**, but not sustaining, loads ranging from up to 20 tons thru 60 tons depending on the rated capacity of the jack. After lifting, loads must be **immediately** supported by appropriate means such as jack stands. Model #23401 is equipped with a 2 stage ram, Model #23601 is equipped with a 3 stage ram. Each model is equipped with a 3 position handle lock to aid in proper saddle/lift point alignment. These jacks are **not recommended** for use in lifting or positioning construction trailers, mobile homes, houses and/or other building structures. These jacks comply with applicable **ASME / ANSI** Standards. Ensure that your air source can dedicate 7.8 CFM @ 90 - 175PSI to each jack operated.

SPECIFICATIONS

Model	Capacity	Jack Size (L x W)	Saddle Min. Height	Saddle Max. Height
23401	20 / 40 Ton	78 3/4" x 6 1/4"	7 1/8" (w/o adapter) 9 7/8" (w/1st adapter) 12 5/8" (w/1st & 2nd adapters)	14 1/4" (w/o adapter) 17" (w/1st adapter) 19 3/4" (w/1st & 2nd adapters)
23601	20 / 40 / 60 Ton	88 1/4" x 10 1/8"	5 7/8" (w/o adapter) 8 5/8" (w/1st adapter) 11 3/8" (w/1st & 2nd adapters)	12 5/8" (w/o adapter) 15 3/8" (w/1st adapter) 18 1/4" (w/1st & 2nd adapters)

BEFORE USE

1. Verify that the product and the application are compatible, if in doubt call Omega Technical Service (888)332-6419.
2. With ram fully retracted, locate and remove the oil filler screw. This will help release any pressurized air which may be trapped within the reservoir. Ensure the oil level is just below the oil filler screw hole. Reinstall the oil filler screw.

ASSEMBLY (required in most cases)

1. Remove handle from carton # 2.
2. Remove **one** of two c-clips securing the handle fork axle.
3. Remove handle fork axle from jack frame, then insert and align the handle fork's holes with the corresponding handle fork axle holes in frame.
4. Re-insert the handle fork axle, which in turn now acts as the pivot axle for the handle fork and integral handle.
5. Secure the axle in place by installing the c-clip removed earlier.

ASSEMBLY (continued)

6. With handle now securely in place, use the handle position lock (see Fig. 1) to secure the handle in it's upright, vertical position.
7. Ensure the oil filler screw is tight, then lean the jack over to one side to allow access to the air lines found at the base of the handle and corresponding connections found on the power unit.
8. Position the handle routed hoses forward of the handle fork axle (refer to Fig. 1).
9. Insert the .25" (smallest of the two lines) air line into the corresponding .25" connection from power unit. Press the connections together by hand only.

NOTE: The handle routed hoses should insert ~.375" into the jack routed hose connection. The hose connections are friction type couplers which require no tools. DO NOT USE TOOL TO INSERT hoses as damage to hose or coupler will occur. Take care not to bend the hoses at 90° angles. Instead, gently loop the hoses into position.

10. Insert the .30" (larger of the two lines) air line into the corresponding coupler on power unit reservoir.

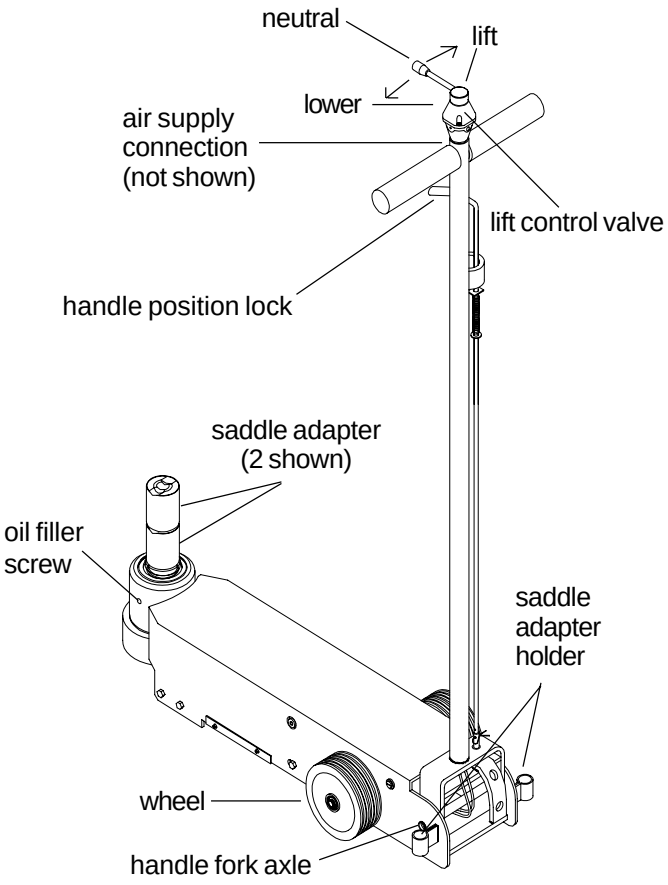

Figure 1- Model 23401/23601 Nomenclature

OPERATION

Lifting

1. Connect handle mounted air supply connection to an adequate air source. For best results, an inline oiler and dryer should be used with air source.
2. Use wheel chocks to help prevent inadvertent shifting and movement of vehicle being lifted.
3. Position the jack near lift point. Consult vehicle service manual for the location of recommended lift points.
4. Shift the lift control valve clockwise from center (neutral) until saddle contacts load. To end lift cycle, simply return the lift control valve to neutral position. Check to ensure proper saddle/lift point alignment.
5. Raise load to desired height. To end lift cycle, simply return the lift control valve to neutral position. Then immediately transfer the load to appropriately rated support devices such as jack stands.

Important: Never wire, clamp or otherwise disable the lift control valve to work by any means other than by using the operators hand.

OPERATION (continued)

Lowering

1. Raise load high enough to clear the jack stands, then carefully remove jack stands (**always** used in pairs).
2. Shift the lift control valve counterclockwise from center. If the load fails to lower:
   a. Use another jack to raise the vehicle high enough to reinstall jack stands.
   b. Remove the affected jack and then the stands.
   c. Using the other jack, lower the load.
3. After removing jack from under the load, push ram down to reduce exposure to rust and contamination.

⚠ WARNING

Study, understand, and follow all instructions provided with and on this device. Do not exceed rated capacity. This is a lifting device only. After lifting, immediately transfer the load to appropriately rated vehicle stands. Never work on, under, or around a load supported by this device. Use only on hard, level surfaces capable of sustaining rated capacity loads. Do not move or dolly loads with this device. Do not modify this device. Failure to heed these markings may result in personal injury and/or property damage.

! SAFETY MESSAGE !

Lift only on areas of the vehicle as specified by the vehicle manufacturer. Do not use adapters or accessories that are not provided initially.

⚠ WARNING

To avoid crushing and related injuries:
NEVER work on, under or around a load supported only by a jack. ALWAYS use adequately rated jack stands.

MAINTENANCE

Important: Use only a good grade hydraulic jack oil. Avoid mixing different types of fluid and NEVER use brake fluid, turbine oil, transmission fluid, motor oil or glycerin. Improper fluid can cause premature failure of the jack and the potential for sudden and immediate loss of load. We recommend Mobil DTE 13 or equivalent.

Adding oil

1. With saddle fully lowered and pump piston fully depressed, set jack in its upright, level position, remove oil filler plug. It may be necessary to remove cover plate on same models.
2. Fill with oil until just below the rim of the oil filler screw hole. Reinstall the oil filler screw and cover plate.

Changing oil

For best performance and longest life, replace the complete fluid supply at least once per year.

1. With saddle fully lowered, remove the oil filler screw.
2. Lay the jack on its side and drain the fluid into a suitable container.

Note: Dispose of hydraulic fluid in accordance with local regulations.

MAINTENANCE (continued)

3. Fill with oil until just below the rim of the oil filler screw hole. Reinstall the oil filler screw and cover plate.

Lubrication

1. A periodic coating of light lubricating oil to pivot points, axles and hinges will help to prevent rust and assure that wheels, casters and pump assemblies move freely.
2. When used on a daily basis, air pump should be internally lubricated before each use. Use **only** good quality air tool lubricant. If no inline oiler is used, pour a teaspoon of air tool oil into the inlet of the air control valve. Simply operate the jack using the air feature in order to fully distribute the oil.

Cleaning

Periodically check the ram for signs of rust or corrosion. Clean as needed and wipe with an oily cloth.

Note: Never use sandpaper or abrasive material on these surfaces !

Storage

When not in use, store the jack with pump piston and ram fully retracted.

TROUBLESHOOTING

Symptom	Possible Causes	Corrective Action
Jack will not lift load	• Hoses crimped or damaged • Overload condition • Air supply inadequate	• Remedy hose position or damage • Remedy overload condition • Ensure adequate air supply
Jack will lift, but not maintain pressure	• Overload condition • Hydraulic unit malfunction	• Remedy overload condition • Contact Omega Tech. Service
Jack will not lower	• Hoses crimped or damaged • Air supply inadequate • Reservoir overfilled	• Remedy hose position or damage • Ensure adequate air supply • Ensure load is removed, then drain fluid to proper level
Poor lift performance	• Fluid level low • Air trapped in system	• Ensure proper fluid level • With ram fully retracted, remove oil filler screw to let pressurized air escape, then reinstall oil filler screw
Will not lift to full extension	• Fluid level low	• Ensure proper fluid level

ONE YEAR LIMITED WARRANTY

For a period of one (1) year from date of purchase, **Shinn Fu Co. of America, Inc.** will repair or replace, at its option, without charge, any of its products which fails due to a defect in material or workmanship, or which fails to conform to any implied warranty not excluded hereby.

Performance of any obligation under this warranty may be obtained by returning the warranted product, freight prepaid, to **Shinn Fu Co. of America, Inc.** Warranty Service Department, 10939 N. Pomona Ave., Kansas City, MO 64153.

Except where such limitations and exclusions are specifically prohibited by applicable law, (1) the CONSUMER'S SOLE AND EXCLUSIVE REMEDY SHALL BE THE REPAIR OR REPLACEMENT OF DEFECTIVE PRODUCTS AS DESCRIBED ABOVE, and (2) **Shinn Fu Co. of America, Inc.** SHALL NOT BE LIABLE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGE OR LOSS WHATSOEVER, and (3) THE DURATION OF ANY AND ALL EXPRESSED AND IMPLIED WARRANTIES, INCLUDING WITHOUT LIMITATION, ANY WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, IS LIMITED TO A PERIOD OF ONE (1) YEAR FROM DATE OF PURCHASE.

Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

REPLACEMENT PARTS

Available Parts: Please refer to the Parts drawing on pages 6, 7 when ordering parts. Not all components of the jack are replacement items, but are illustrated as a convenient reference of location and position in the assembly sequence. When ordering parts, give Model number, serial number and description. Call or write for current pricing:
Shinn Fu Company of America, Inc. 10939 N. Pomona Ave. Kansas City, MO 64153, U.S.A.
Tel:(888)332-6419 Fax:(816)891-6599 E-Mail: sales@omegalift.com Omega Website: http://www.omegalift.com

Model 23401

Ref. No.	Description	Quantity
1	adapter	2
2	power unit assembly	1
3	air motor	1
4	wheel assembly	2
5	handle assembly	1
6	lift control assembly	1
--	label(s) (not shown)	1
--	manual (OIPM 23401-HYDAJ2)	1

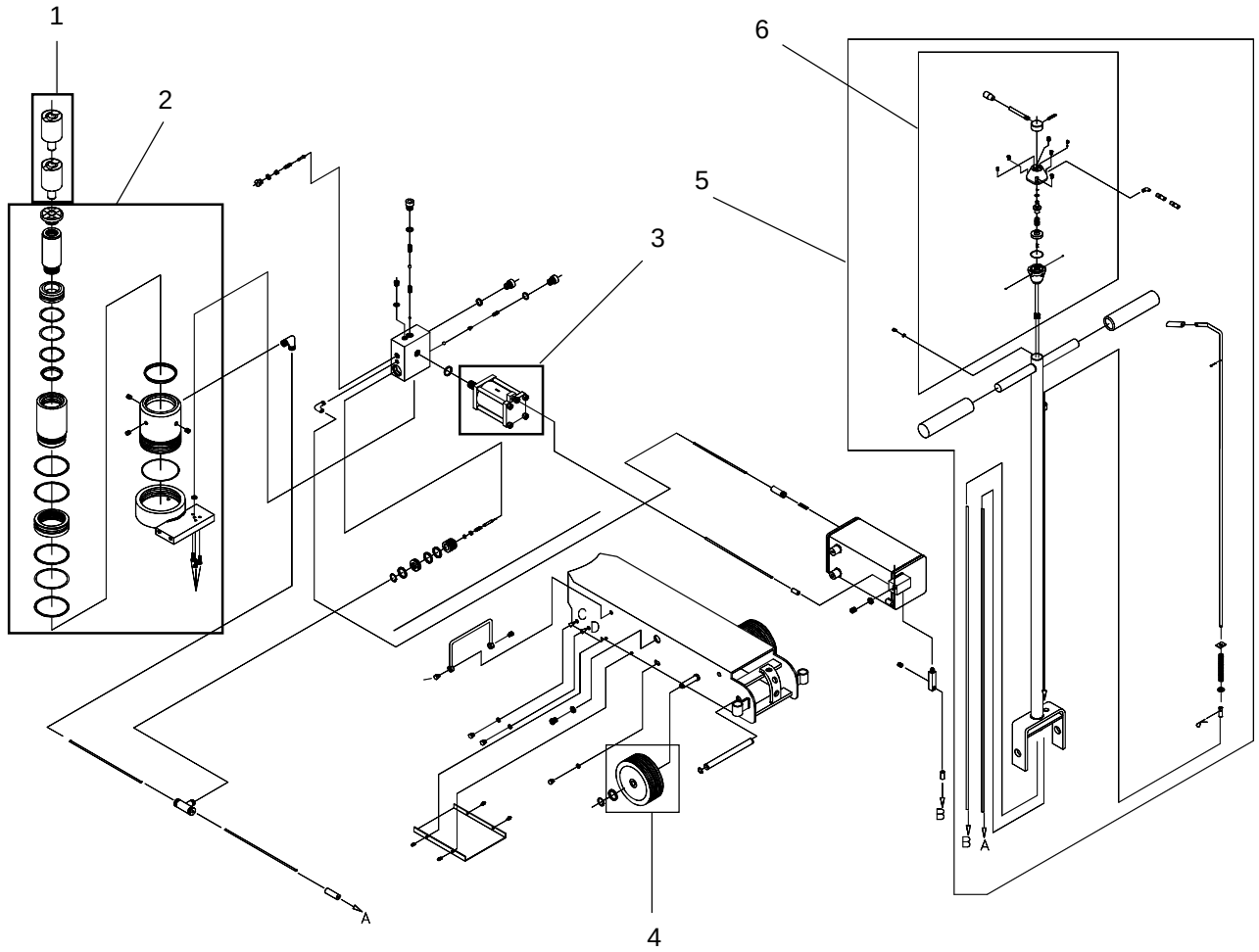

Figure 2 - Replacement Parts Illustration for Model 23401

Model 23601

Ref. No.	Description	Quantity
1	adapter	2
2	power unit assembly	1
3	air motor	1
4	wheel assembly	2
5	handle assembly	1
6	control assembly	1
–	label(s) (not shown)	1
–	manual (OIPM 23401-HYDAJ2)	1

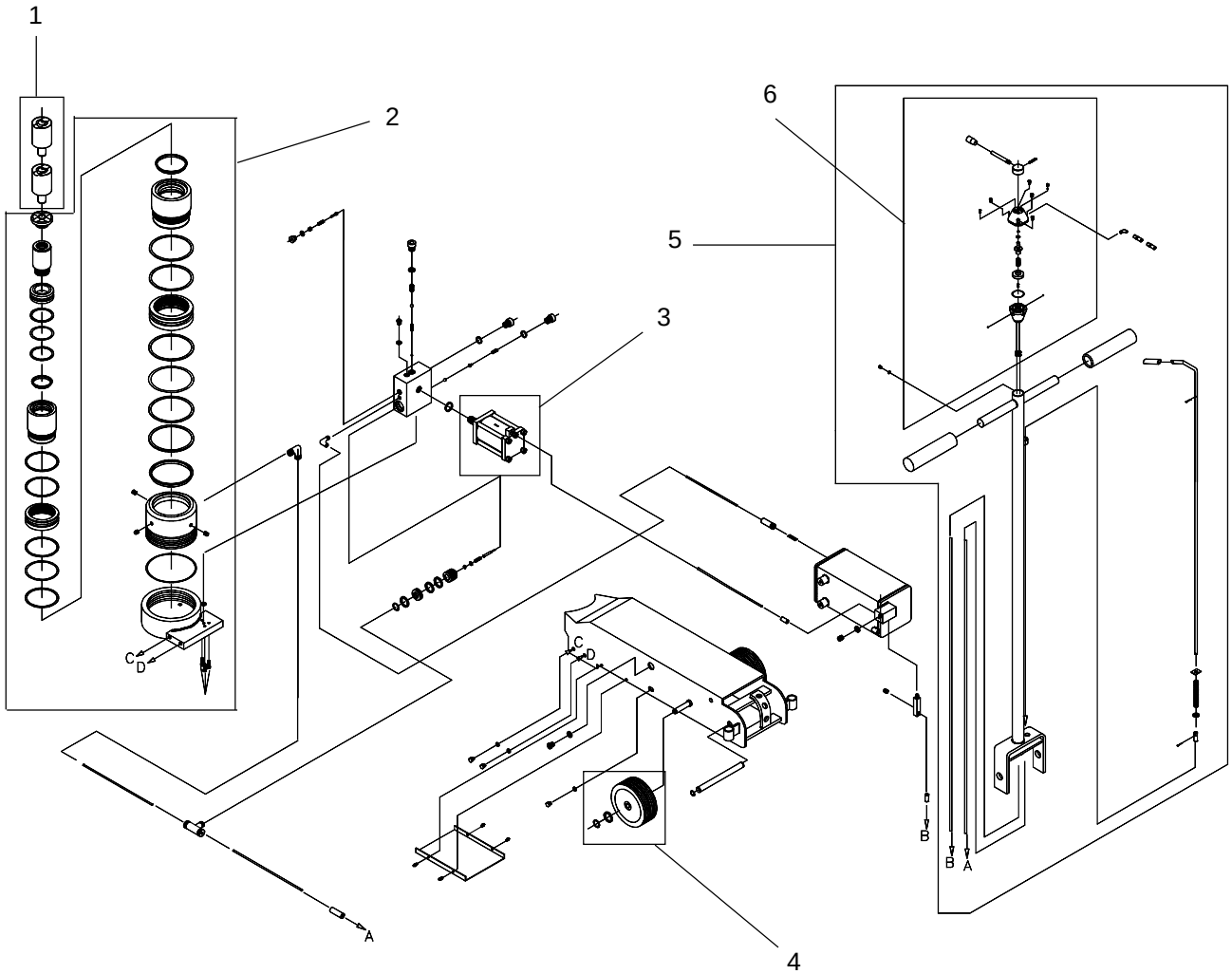

Figure 3 - Replacement Parts Illustration for Model 23601

Notes

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